

San Joaquin Valley Unified Air Pollution Control District

PERMIT UNIT: N-1662-1-5

EXPIRATION DATE: 6/30/2001

EQUIPMENT DESCRIPTION:

FURNACE #1 FITTED WITH MAXON GAS/OXYGEN BURNERS AND ASSOCIATED EQUIPMENT (75 MMBTU/HR MAX HEAT CAPACITY).

Permit Unit Requirements

1. Source testing to demonstrate compliance with permit conditions and all rules and regulations for both natural gas and LPG shall be conducted annually. NO_x and CO testing shall be performed using CARB Method 100. PM testing shall be performed using EPA Method 5. [District Rule 1081 and District Rule 2520, 9.4.2 and District Rule 4354] Federally Enforceable Through Title V Permit
2. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
3. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
5. The furnace shall be fired on natural gas and LPG only.[District NSR Rule] Federally Enforceable Through Title V Permit
6. The furnace shall have a continuous monitoring system for NO_x. The monitoring device shall have a continuous recording device, and all records shall be kept on site. [District Rules 4354 and 1080] Federally Enforceable Through Title V Permit
7. The continuous monitoring system shall be operated and maintained in accordance with the Quality Assurance Procedures as outlined in 40 CFR Part 60 Appendix F.[District Rule 1080] Federally Enforceable Through Title V Permit
8. One continuous monitoring system may be used for monitoring the oxy-fuel fired furnaces #1, #2, #3, and #4 provided all of the exhaust gases of each of these furnaces are ducted to a common stack, and monitored down stream of the common stack. [District Rule 1080] Federally Enforceable Through Title V Permit
9. An annual Relative accuracy Test Audit (RATA) shall be performed on the continuous monitoring system as outlined in 40 CFR Part 60 Appendix B. [District Rule 1080] Federally Enforceable Through Title V Permit
10. NO_x emissions shall not exceed 1.5 pounds per ton of glass produced. This performance based limit is to enforce the NO_x emission reductions granted by certificate number N-106-2. [District NSR Rule] Federally Enforceable Through Title V Permit

11. CO emissions shall not exceed 0.04 pounds per ton of glass produced. This performance based limit is to enforce the CO emission reductions granted by certificate number N-106-3. [District NSR Rule] Federally Enforceable Through Title V Permit

12. Source test using LPG need not be performed if the LPG usage for this furnace does not exceed 100 hours during any one calendar year. Once the 100 hours is exceeded, a source test shall be performed within 90 days after the exceedance of 100 hours. [District Rule 1081] Federally Enforceable Through Title V Permit

13. The CEMS shall meet the performance specifications of 40 CFR 60, Appendix B. [District Rule 1080; Stanislaus County Rule 108] Federally Enforceable Through Title V Permit

14. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080; Stanislaus County Rule 108] Federally Enforceable Through Title V Permit

15. Records shall be maintained and shall contain: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEMS that have been installed pursuant to District Rule 1080, and emission measurements. [District Rule 1080; Stanislaus County Rule 108] Federally Enforceable Through Title V Permit

16. An exceedance of NO_x emission standards indicated by the NO_x CEMS shall be reported by the operator to the APCO within 96 hours. [District Rule 1080; Stanislaus County Rule 108] Federally Enforceable Through Title V Permit

17. Operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEMS. Operator shall inform the APCO of the intent to shut down the CEMS at least 24 hours prior to the event. [District Rule 1080; Stanislaus County Rule 108] Federally Enforceable Through Title V Permit

18. Operators of CEMS installed at the direction of the APCO shall submit a written report for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include the following: A) time intervals, data and magnitude of excess emissions, nature and cause of excess (if known), corrective actions taken and preventive measures adopted; B) averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; C) applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; D) a negative declaration when no excess occurred. [District Rule 1080] Federally Enforceable Through Title V Permit

19. All required source testing shall conform to the compliance testing procedures described in District Rule 1081. [District Rule 1081, and Stanislaus County Rule 108.1] Federally Enforceable Through Title V Permit

20. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201, Stanislaus County Rule 404, District Rule 4202 and Stanislaus County Rule 405. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

21. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4354. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

22. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4801 and Stanislaus County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

23. The requirements of District Rule 4301 and Stanislaus County Rule 408 were determined to not apply to this unit because the unit does not utilize indirect heat transfer. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

24. The requirements of 40 CFR 60, Subpart CC were determined to not apply to this unit because the unit was constructed prior to the effective date in the regulation and not been modified (according to the definition of "modified" in the regulation). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

25. The requirements of 40 CFR 61, Subpart N were determined to not apply to this unit because the unit does not use commercial arsenic. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

26. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201 and Stanislaus County Rule 404] Federally Enforceable Through Title V Permit

27. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E=3.59P^{0.62}$ ($P < 30$ tph) or $E=17.31P^{0.16}$ ($P > 30$ tph). [District Rule 4202] Federally Enforceable Through Title V Permit

28. The operator shall maintain an operating log that includes on a monthly basis; the hours of operation of the furnace, type and quantity of fuel used in the furnace, and quantity of glass pulled. This information shall be maintained and submitted to the APCO upon request. [District Rule 4354] Federally Enforceable Through Title V Permit

29. The facility shall not use commercial arsenic as a raw material in the production process.[40 CFR 61 Subpart N] Federally Enforceable Through Title V Permit

30. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Stanislaus County Rule 407 and District Rule 4801] Federally Enforceable Through Title V Permit